

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number  
**WO 2005/094960 A1**

(51) International Patent Classification<sup>7</sup>: **B01D 15/08,**  
C07K 1/36

(21) International Application Number:  
PCT/SE2005/000467

(22) International Filing Date: 31 March 2005 (31.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0400886-8 2 April 2004 (02.04.2004) SE

(71) Applicant (for all designated States except US): **AMERSHAM BIOSCIENCES AB** [SE/SE]; Björkgatan 30, S-751 84 Uppsala (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VAN ALSTINE, James** [CA/SE]; Amersham Biosciences AB, Björkgatan

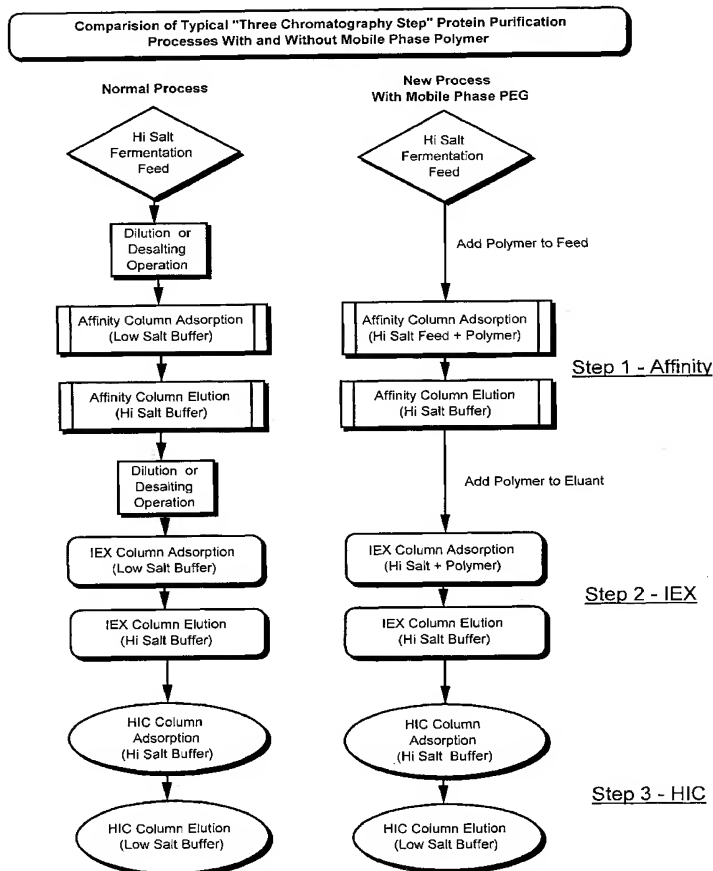
30, S-751 84 Uppsala (SE). **HOUSHMAND, Hamid** [SE/SE]; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE). **LJUNGLÖF, Anders** [SE/SE]; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE). **ÅBERG, Per-Mikael** [SE/SE]; Amersham Biosciences AB, Björkgatan 30, S-751 84 Uppsala (SE).

(74) Agent: **AMERSHAM BIOSCIENCES**; Patents Department, Björkgatan 30, S-751 84 Uppsala (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: A METHOD FOR CHROMATOGRAPHIC PURIFICATION



(57) Abstract: The present invention relates to a method of isolating a target compound from other components of a liquid, which method comprises at least two chromatographic steps, in any sequence of order, wherein the mobile phase is contacted with an affinity chromatography matrix and/or an ion-exchange chromatography matrix and/or a hydrophobic interaction chromatography matrix, wherein the contacting with at least one of the matrices takes place in the presence of at least one non-ionic polyether; and obtaining the target compound(s) in a separate fraction from the last chromatographic step. In the most preferred embodiment, the non-ionic polyether is poly(ethylene glycol) (PEG).

WO 2005/094960 A1



**(84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*